

## [CLAIM]

1. A human antithrombin variant characterized in that at least one of the amino acids at positions 78, 278, 378 and 380 in the amino acid sequence of natural human antithrombin is replaced with another amino acid. 02
2. The human antithrombin variant as claimed in claim 1 wherein the amino acid at position 78 in the amino acid sequence of natural human antithrombin is replaced with Phe. ✓
3. The human antithrombin variant as claimed in claim 1 wherein the amino acid at position 278 in the amino acid sequence of natural human antithrombin is replaced with the amino acid selected from Ala, Arg, Asn, Gly, His, Tyr and Val.
4. The human antithrombin variant as claimed in claim 1 wherein the amino acid at position 378 in the amino acid sequence of natural human antithrombin is replaced with the amino acid selected from Lys, Asn and Val.
5. The human antithrombin variant as claimed in claim 1 wherein the amino acid at position 380 in the amino acid sequence of natural human antithrombin is replaced with the amino acid selected from Ala, Asp, Gly, His, Ile, Leu, Asn, Pro, Arg, Thr, Tyr and Val. ✓ 102
6. A DNA encoding the human antithrombin variant as claimed in claim 1. 102